┌───┐
│   **This Raw Listing contains the General Information**   │
│   **Section and up to first 5 pages.**   │
└───┘

```
 1    <110> APPLICANT: Munger, William E.
 2          Kulkarni, Prakash
 3          Getzenberg, Robert H.
 4          Waga, Iwao
 5          Yamamoto, Jun
 6    <120> TITLE OF INVENTION: Identifying Drugs for and Diagnosis of Benign Prostatic
 7          Hyperplasia Using Gene Expression Profiles
 8    <130> FILE REFERENCE: 44921-5029-US
 9    <140> CURRENT APPLICATION NUMBER: US/09/873,319A
10    <141> CURRENT FILING DATE: 2001-06-05
11    <150> EARLIER APPLICATION NUMBER: US 60/223,323
12    <151> EARLIER FILING DATE: 2000-08-07
13    <160> NUMBER OF SEQ ID NOS: 755
14    <170> SOFTWARE: PatentIn Ver. 2.1
15    <210> SEQ ID NO 1
16    <211> LENGTH: 333
17    <212> TYPE: DNA
18    <213> ORGANISM: Homo sapiens
19    <220> FEATURE:
20    <223> OTHER INFORMATION: Genbank Accession No. AA004699
21    <400> SEQUENCE: 1
22          ttaataaagc agaaatgtat ttattaggca cccttgttcc tcacagagga gcaagatcca 60
23          ggcctgagcg cctgggaagt ctcttgaggt tgcaggaatc tccagagaaa cataggcgct 120
24          gcccagccac caccccgaga acactatttg ggctggagtg tgaccgccga ggtgatcctg 180
25          gcaggaggct ggggttggct cctcgactcc acaaacactg aggagtgggt ggggacacca 240
26          ttgacaccca cccaaacact ggcagagagg gaaggccctt ccagattctg gggcacatgt 300
27          tgctgggcct gccaggggga aggaggagcc tgg                             333
28    <210> SEQ ID NO 2
29    <211> LENGTH: 287
30    <212> TYPE: DNA
31    <213> ORGANISM: Homo sapiens
32    <220> FEATURE:
33    <223> OTHER INFORMATION: Genbank Accession No. AA007158
34    <400> SEQUENCE: 2
35          tttcacaaat gtcaatttta ttgacactag tgcacaacta aatacaataa ttgcaaagga 60
36          agtggaacgt gtcaaacaga aatggtgaca atgagttaga actgcagttg tttcaaggta 120
37          ctacactatt atttaaaaaa aaaactcaca aaaagaaaaa tgttatcact acaagtagga 180
38          attagaagag agaaatcctg gcagtctgtc tagaggttaa aacatttcat gcatttgtga 240
39          gttgctgttg gagagtttgt tttttatttg tccaccgtaa tctggca            287
40    <210> SEQ ID NO 3
41    <211> LENGTH: 468
42    <212> TYPE: DNA
43    <213> ORGANISM: Homo sapiens
44    <220> FEATURE:
```

```
45   <223> OTHER INFORMATION: Genbank Accession No. AA009755
46   <220> FEATURE:
47   <221> NAME/KEY: unsure
48   <222> LOCATION: (1)..(468)
49   <223> OTHER INFORMATION: n = a or c or g or t
50   <400> SEQUENCE: 3
51        aggtacttca aaagccacat ttaattcaaa ataaaatgag catttctgac agatgacaac 60
52        agtatgaaac tgattttttt ctttcctaga tacaaaaatg atatggggca tttcttaaca 120
53        gtttagtaat cgtctaagaa taattgtaga aataacccca attccaccat cccagccact 180
54        ggtataaaac aaataccttc catgaaactg tctttcacat aactaaaata tcctcactta 240
55        cttggaacaa tttcatgctt acacatgatc acaaacattt gtttttagat gttgtggaat 300
56        tactggagct gagatttctg aaacaatatc tgaatcttag cagagagata ataatccttt 360
57        cactatacat tgcttgggct tccttaacca aatctgagta actactggta ataataatgc 420
58        tggtggtagt ccatgatact ctcaaatttt tccctttaag aaatatan            468
59   <210> SEQ ID NO 4
60   <211> LENGTH: 163
61   <212> TYPE: DNA
62   <213> ORGANISM: Homo sapiens
63   <220> FEATURE:
64   <223> OTHER INFORMATION: Genbank Accession No. AA017063
65   <220> FEATURE:
66   <221> NAME/KEY: unsure
67   <222> LOCATION: (1)..(163)
68   <223> OTHER INFORMATION: n = a or c or g or t
69   <400> SEQUENCE: 4
70        cgcangatga ncacttccgc gggggatgct cccggttgct ctgcggaggg caggccgact 60
71        cagggcgggg tttggtcctg aaaaaatggg gtggggcggt tacctcttac cgcttgggac 120
72        cttgggacct cttnttgacc ccaggaagag attagaagcc ctt                 163
73   <210> SEQ ID NO 5
74   <211> LENGTH: 196
75   <212> TYPE: DNA
76   <213> ORGANISM: Homo sapiens
77   <220> FEATURE:
78   <223> OTHER INFORMATION: Genbank Accession No. AA019034
79   <400> SEQUENCE: 5
80        tatctttaca aatgacagaa tatttattaa caataccttt aaaaaagatt acatatgcta 60
81        gatcactggt aaatatcatt tacactgggg ttgggaactc cctgggtgtc atttttttc 120
82        gttcatttta ttattttgct gattttttt ttgcatgtga ttttaaattt tatttcaaca 180
83        tagaagtaac catatc                                               196
84   <210> SEQ ID NO 6
85   <211> LENGTH: 482
86   <212> TYPE: DNA
87   <213> ORGANISM: Homo sapiens
88   <220> FEATURE:
89   <223> OTHER INFORMATION: Genbank Accession No. AA019433
90   <220> FEATURE:
91   <221> NAME/KEY: unsure
92   <222> LOCATION: (1)..(482)
93   <223> OTHER INFORMATION: n = a or c or g or t
94   <400> SEQUENCE: 6
```

```
 95           ttttttttta agtaaaagaa aaagtgcggc tgttaccaat ctgaagtggg agcagccgca 60
 96           cttttttttt ttttttttaa gtaaaagaaa atttattatg aaactaaagg aataaaagaa 120
 97           tgaccactcc ataggcagag aaacgtcact ttaaggtttt gacatcaatt gatttttgtc 180
 98           caaatcaata attactgcaa tgattgaaaa atgattatta ctaagtttgt tttcattgtc 240
 99           tcaaggtctg ctgaactctg gatccaggct gtgtcaacag ggtagtgtgg tgcctcctgt 300
100           acctgtcttg gcctcctaca gtcctttta cttattttgt tttttagaat tagagacagg 360
101           gtcttactat gttgctcaga ctgggnttca aactcctagg ctcaagcaat cttccagcct 420
102           cagcctccta aaagtgctgg ggattacagg catgagccac canacccggg ccaagttctt 480
103           tt                                                                 482
104  <210> SEQ ID NO 7
105  <211> LENGTH: 245
106  <212> TYPE: DNA
107  <213> ORGANISM: Homo sapiens
108  <220> FEATURE:
109  <223> OTHER INFORMATION: Genbank Accession No. AA022886
110  <220> FEATURE:
111  <221> NAME/KEY: unsure
112  <222> LOCATION: (1)..(245)
113  <223> OTHER INFORMATION: n = a or c or g or t
114  <400> SEQUENCE: 7
115           taaaacccca tgagatattt atataaagtt actcagattt gggccgacat ggcttatctg 60
116           aagagtgcat gccgggtaaa ttcagggtgg cttttttctc agggtctgga agtgtgagag 120
117           tttctggggc agacttttc cggggccgat ctttgggaac ggacagaaat tcgggtgcgt 180
118           ctgtggagag aggggtggat ggagcactag aaggcgcact gcggacngaa aaaggcccc 240
119           ccccg                                                              245
120  <210> SEQ ID NO 8
121  <211> LENGTH: 337
122  <212> TYPE: DNA
123  <213> ORGANISM: Homo sapiens
124  <220> FEATURE:
125  <223> OTHER INFORMATION: Genbank Accession No. AA025370
126  <400> SEQUENCE: 8
127           ggatggaata caatttccaa tagtgtctag gccgacaccc ctccaccctc ctttgcctgt 60
128           cattcaagtc aataccctgg agaaaagagg ctgtggggga ggccatgttc gattaggagg 120
129           tttaagagtc catcaaagtg tcatatgtgt taggtgtgaa atggcgacac tgggaattac 180
130           tgttaataag gggtggctgc agcacggtga ttgttatgag aacatcccca ccgccccact 240
131           tttgtttgaa gactttcgta ctgaactaca tgttgtttac tttcaacaac gtatacacta 300
132           cagttgacaa aagttaatct cggtgataag aatatgc                            337
133  <210> SEQ ID NO 9
134  <211> LENGTH: 411
135  <212> TYPE: DNA
136  <213> ORGANISM: Homo sapiens
137  <220> FEATURE:
138  <223> OTHER INFORMATION: Genbank Accession No. AA026641
139  <220> FEATURE:
140  <221> NAME/KEY: unsure
141  <222> LOCATION: (1)..(411)
142  <223> OTHER INFORMATION: n = a or c or g or t
143  <400> SEQUENCE: 9
144           tttntntgca aagagaaata ggctcgttta ttnattcatt gatcaactgg cacttcttga 60
```

```
W-->    145      aancctgctg tgtgccaagc ctttccccaa aggaggatat cagtgnnnna gnaagtctca 120
        146      gggtggaaag gacctggacc acacagagca ggactccaga gcctcctcca tatggcagga 180
        147      atcaagcttt cacaggggaa acgcaggatt tcccacacat gcccatgcaa cacttcaagt 240
W       148      cacgcttgca ctggccatcc atctcacaga aattgggggg gttnagcatc naacattggc 300
W       149      canaantcac tnggnacttn ccaggggttn cnccttgttg ggnttngggg ggtnnacagg 360
W-->    150      ggncccggca nttnatgcnc caagtttcng ggcaaanatt tcttttttcc c            411
        151      <210> SEQ ID NO 10
        152      <211> LENGTH: 471
        153      <212> TYPE: DNA
        154      <213> ORGANISM: Homo sapiens
        155      <220> FEATURE:
        156      <223> OTHER INFORMATION: Genbank Accession No. AA028092
        157      <400> SEQUENCE: 10
        158      tagcaatata aagaaagatt tattttcaaa agtagcaaaa cttgtttgaa aaaaatatat 60
        159      atctttaagt gaattacttt ataaatgtga ctgtcaaagt cagctatcct atgatctaca 120
        160      ttttacaaca tattgtacaa aagatacatt gataggctct tatctattta tatatttata 180
        161      attacatatt gcacttggac cagcaaggct tgcagagtca ttcacggtag aagttaataa 240
        162      agttaaatag atgggaatct ttgtaagtac aattgatctc ctctggtttg gaaacgaatc 300
        163      tcctcgtcgt tgtaaagtgt tctcgcgggg tgggacagag agaggagcat tgcgaggggg 360
        164      aagcagagac agagagcact gagggcaggg gtcgccttcc cggggcccgc tccccccggg 420
        165      aggcggcctt tcccagactc gcacctccaa ggtcaggacg cggtggttcc a            471
        166      <210> SEQ ID NO 11
        167      <211> LENGTH: 422
        168      <212> TYPE: DNA
        169      <213> ORGANISM: Homo sapiens
        170      <220> FEATURE:
        171      <223> OTHER INFORMATION: Genbank Accession No. AA029356
        172      <220> FEATURE:
        173      <221> NAME/KEY: unsure
        174      <222> LOCATION: (1)..(422)
        175      <223> OTHER INFORMATION: n = a or c or g or t
        176      <400> SEQUENCE: 11
        177      gctctcagag gacaagaatt atgttttatt catttgggag tacataggcg gtatttaaac 60
        178      aatggtgcta tcttaaacac caaatatcaa ctgcagttca cttttttccgt gtggggacta 120
        179      atatcaagat ttcatatgaa ttatagtata atccagaagt atgaaaaaat acatcatatt 180
        180      taacttataa agcattcatc tgcatgttat aagatattac agtaaataca attaggtact 240
W       181      taccattta tctttacttt aaaaacaatg cctnttccaa aatataaaaa aaagacctat 300
W       182      ttttaaagan ctatttaaag atngcttttg aaaacaacac ttttatntta cnacaaatag 360
W       183      atggtagtgg caacagcact cgtggatgtt tacgngtaaa taaaaatacc tagtattccg 420
        184      gg                                                                422
        185      <210> SEQ ID NO 12
        186      <211> LENGTH: 253
        187      <212> TYPE: DNA
        188      <213> ORGANISM: Homo sapiens
        189      <220> FEATURE:
        190      <223> OTHER INFORMATION: Genbank Accession No. AA029597
        191      <400> SEQUENCE: 12
        192      gccagaacca aacgtctcct tttattgcaa ggtcaaaccc ttttcatttt gtctatttat 60
        193      acagaatttt cactaaggac tgctcgacgc aacagctgtg agtacattgg tccaaccatt 120
        194      aataaatagt cttaaataag aaaacaaaca ggttgaagga aagcaagctc atcgtcctga 180
```

```
195            acgagggatt aaaggggggg ggtgttcaaa agagctttgg atggaaataa ataatctctt 240
196            tgctttgtaa cac                                                    253
197    <210> SEQ ID NO 13
198    <211> LENGTH: 186
199    <212> TYPE: DNA
200    <213> ORGANISM: Homo sapiens
201    <220> FEATURE:
202    <223> OTHER INFORMATION: Genbank Accession No. AA031360
203    <220> FEATURE:
204    <221> NAME/KEY: unsure
205    <222> LOCATION: (1)..(186)
206    <223> OTHER INFORMATION: n = a or c or g or t
207    <400> SEQUENCE: 13
208            aaaatttaaa ataaaatttt attttatctt atactcaagt tcagacaata gcatgtggtg 60
209            tacattcaaa atttttgaca ggtacagagc acattaaaaa atgaagacat gatcaaggag 120
210            atgtaagaga caaatagaca acaacattct ccctgaatct ggaaaaaagc nagccnttag 180
211            ggtncc                                                           186
212    <210> SEQ ID NO 14
213    <211> LENGTH: 206
214    <212> TYPE: DNA
215    <213> ORGANISM: Homo sapiens
216    <220> FEATURE:
217    <223> OTHER INFORMATION: Genbank Accession No. AA036900
218    <220> FEATURE:
219    <221> NAME/KEY: unsure
220    <222> LOCATION: (1)..(206)
221    <223> OTHER INFORMATION: n = a or c or g or t
222    <400> SEQUENCE: 14
223            ctttgctacc ttctgcttgt tgagttgttt tggcattcat attaaaagcc agcatctcac 60
224            tatttattga caggttgggc tgtgtgtgtg cgcatgtgtg tatacatttc caggcgtgcc 120
225            tgtgtcctgt agcttttttaa aaggaaaccc agtcatccca ctatgaatct ggcatcttct 180
226            tatgcttcta gtgttttggc canaca                                      206
227    <210> SEQ ID NO 15
228    <211> LENGTH: 494
229    <212> TYPE: DNA
230    <213> ORGANISM: Homo sapiens
231    <220> FEATURE:
232    <223> OTHER INFORMATION: Genbank Accession No. AA039935
233    <220> FEATURE:
234    <221> NAME/KEY: unsure
235    <222> LOCATION: (1)..(494)
236    <223> OTHER INFORMATION: n = a or c or g or t
237    <400> SEQUENCE: 15
238            ttcagttttt ggtcatttta attgtaaaaa ccaagacatt tatataaata agaccgctgt 60
239            gtaaaatacg attcaccctt ctacgaaaac ccttttccca cactcgaaan gaaanatagaa 120
240            aacccagcag agagcagtac aantcagcat gcggtcccng atagctgaag tctcgggcng 180
241            gccagtggtt ccctgcggaa nagccttcgt nggtgganag nactcctggc ccaggtggnc 240
242            ccaccagann ntcnntgacc ntctcnanga gacttgcnag gtangcagct cccnnacacc 300
243            agcccctttgn gtctcaantn tacgggtcca aggaggggac gggaaaggct gcttggtccc 360
244            caccaaggct tggggggctg ggggggcctg ctggcccagt gaagatgcag tggtctgttc 420
```